

12.

Japanese Expedition,  
1906.

Dr 4780 - 4813

Book No 2.

Next Nos. { Dr. 1780  
{ sky. 4868

No. H. 4868. Date 7 June 06.  
 Luer Machine. Reel. Tread  
 Turns Cor. + Depth 1477 fms.  
 Shot or lead 35 ft. and Sigsbee 56g Cup.  
 Bottom alt. 97. M.  
 Bottom temperature 35.9°  
 No. of thermometer 108019 Cor. +0.1°  
 Corrected temperature 35.8°  
 Air 43° Surface 41° Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8.02.05	8.35.00	0		
02.50	34.05	100		
03.40	33.10	200		
04.35	32.15	300		
05.40	31.25	400		
06.45	30.35	500		
07.55	29.45	600		
09.05	28.55	700		
10.15	28.00	800		
11.30	27.05	900		
12.50	26.10	1000		
14.10	25.10	1100		
15.30	24.10	1200		
16.50	23.00	1300		
18.20	21.50	1400		
8.19.30	8.20.30	1477 1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L. = 97.3	
		2600	Chart: C.S. 9100	
		2700	Lat. 51° 51' N.	
		2800	Long. 174° 39' E.	
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. D. 4780. Date 7 June, 06.

507  
Scales Machine. Reel. Scales

Turns Cor. + Depth 1046 fm.

Shot or lead 35 ft of Sigsbee Sdg. Cigs.

Bottom 97 MSP

Bottom temperature 36°

No. of thermometer 108019. Cor. + 0.1

Corrected temperature 35.9°

Air 45° Surface 41° Drift

Trawl or dredge flagging 8-ft.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.54.40	10.16.10	0	10.26.50	8.40
55.20	115.15	100	29.40	5.75
56.05	14.30	200	33.35	7.40
57.00	13.40	300	36.55	12.00.00
58.10	12.50	400	39.50	57.15
59.20	12.00	500	42.45	54.75
10.00.30	11.05	600	45.45	51.45
01.40	10.15	700	51.20	49.00
02.50	09.25	800	54.20	46.20
04.05	08.25	900	57.10	43.40
05.20	07.25	1000	59.55	40.30
10.05.55	10.06.50	1046	11.02.50	37.00
		1100	05.35	33.30
		1200	08.35	29.20
		1300	11.30	26.50
		1400	14.15	21.50
		1500	11.17.00	11.17.00
		1700		
		1800	Set clock back	
		1900	16 minutes	
		2000	Marked 16 min.	
		2100	accumulator in bi.	
		2200	eating good food	
		2300	in that time.	
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L. =	7.3
		2600	Chart.	C.S. 9100
		2700	Lat. 52° 01' N	
		2800	Long. 174° 39' E.	
		2900	Weather	on
Q.R.		3000	Wind	NW. 2
L.M.		3100	Sea.	S
		3200	Bar.	29.87
		3300	Therm.	65°
		3400	Course:	W by N (RSC)
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. H 4869 Date June 7 or  
Lines Machine. Reel.

Turns Cor. + Depth 808

Shot or lead 35 lb. Sig. air.

Bottom fat. 94.2 G

Bottom temperature 36.3

No. of thermometer 108019 Cor. -0.1

Corrected temperature 36.2°

Air 45° Surface 42° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1 26 20	43 15	0		
27 05	42 20	100		
27 50	41 30	200		
28 45	40 40	300		
29 40	39 50	400		
30 45	39 00	500		
31 55	38 00	600		
33 05	37 05	700		
34 15	36 00	800		
34 25	35 40	900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	FL	17.3
		2600	Chart	C.S. 9100
		2700	Lat 52° 08' N	
		2800	Long 174° 25' E	
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 1178

Date June 7 06

Lucapa

Machine. Reel.

Turns Cor. + Depth 482

Shot or lead 35 lb. Sigs. Cyo.

Bottom fine 94.5 P.

Bottom temperature 38.7

No. of thermometer 108019 Cor. -0.1°

Corrected temperature 38.6°

Air 45 Surface 28° Drift

Trawl or dredge 12 fathoms

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
57.10	7.15	0	3-13 00	4-18-00
58.00	6.20	100	16 30	14-15
58.58	5.30	200	19 30	18-00
59.50	4.40	300	22 35	7-05
60.38	3.45	400	25 35	4-05
1 503.7-45	482	500	28 35	4-00-00
		600	31 55	55-45
		700	33 30	53 10
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

4  
No. D 4781 Cont'd. Date June 7, 1906  
Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 42° Surface 42° Drift

Trawl or dredge Intermediate "1 and 2" and

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	4-32-35	4-21-30
		100	36-10	17-50
		200	39-50	14-23
		300	44-05	10-4
		400	4-46-30	5-06-30
		500	Towed	
		600	with	
		700	cable a	
		800	debris	
		900	Net badly tangled	
		1000	trammel line	
		1100	Knot on 1 line	
		1200	Net drag red on	
		1300	bottome	
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>D. Course</i>	<i>N.W. x W.</i>
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. H 4870 Date June 7, 1906  
 S. S. Machine. Reel. S. S. S.

Turns Cor. + Depth 70 fms.

~~Shot on lead~~ 35 lb. Sigs. Sig cup.

Bottom Green sand and pebbles (Egn. S. P.).

Bottom temperature

No. of thermometer None Cor. (

Corrected temperature

Air 43° Surface 42° Drift

Trawl or dredge

SOUNDING WIRE.			TURNS.	DREDGE ROPE.	
DOWN.	I.I.	UP.		DOWN.	UP.
			0		
			100		
			200		
			300		
			400		
			500		
			600		
			700		
			800		
			900		
			1000		
			1100		
			1200		
			1300		
			1400		
			1500		
			1600		
			1700		
			1800		
			1900		
			2000		
			2100		
			2200		
			2300		
			2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	PL.	37.3
		2600	Lat. 52° 24' N	
		2700	17° 17' E	
		2800	27° 55' S	
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No.

Date

T. N.

Machine.

Reel.

Turns 30 Cor. +

Depth 30 fms.

Shot on lead T. B tube

Bottom T. B. S.

Bottom temperature

No. of thermometer None Cor.

Corrected temperature

Air 42° Surface 41° Drift

Trawl or dredge

AM SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.31.15	10.32.10	0		
10.31.30	10.31.31	30	400	
(Vertical shot.)		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	66.	5.0
		2600		6.0
		2700	Lat. 52° 45' N.	
		2800		
		2900	Bearings:	—
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 3. 10.7. Date 6. 1. 1901  
 Lucas Machine. Reel. Lucas  
 Turns Cor. + Depth 65 fms.  
 Shot or lead 35 ft. Sled 640.  
 Bottom 65 fm. Sled G. S.  
 Bottom temperature —  
 No. of thermometer 2 more. Cor.  
 Corrected temperature —  
 Air 43° Surface 41° Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
11.19.8		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800	cut off	
11.20.0		900	about	
12.5 fm. wire		1000	2000	
13.5 fm. wire		1100	2000	
		1200	2000	
		1300	2000	
		1400	2000	
date, on this cruise,		1500	2000	
13.5 fm. wire		1600	2000	
		1700	2000	
		1800	2000	
		1900	2000	
		2000	2000	
		2100	2000	
		2200	2000	
		2300	2000	
		2400	2000	

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		10.0
		2600		10.0
		2700		10.0
		2800		10.0
		2900		10.0
		3000		10.0
		3100		10.0
		3200		10.0
		3300		10.0
		3400		10.0
		3500		10.0
		3600		10.0
		3700		10.0
		3800		10.0
		3900		10.0
		4000		10.0

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 44873 Date June 9 '06

T. A. T. Machine. Reel.

Turns Cor. + Depth 60 fms

Shot or lead 35 lbs

Bottom 91.0 fms. Sh.

Bottom temperature

No. of thermometer 47 Cor.

Corrected temperature

Air 43° Surface 41° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
100		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No.

Date

Machine. Reel.

Turns 57 Cor. + Depth 57 fms.

Shot or lead 35 ft. T. Lead

Bottom R.G.

Bottom temperature

No. of thermometer None Cor.

Corrected temperature

Air 43° Surface 41° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.00.30		0		
1.01.00	1.01.01	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L. =	20.0
		2600	Weather	on
		2700	Wind	E by S. 3.
		2800	Sea	W
		2900	Rope.	29.2-1
		3000	W. 45°	70°
		3100	C.S. 45°	C.S. 45°
		3200	C.S. 20°	E.N.E.
		3300	Lat. 52°	55° N.
		3400	173° 27' E.	
		3500		
		3600	Alt. 12° S 22° W	
		3700	(bone), dist. 4 miles	
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No.

Date

T.N. Machine. Reel.

Turns: 59 Cor. + Depth 59 fms.

Shot or lead T.N.

Bottom on S. fms.

Bottom temperature

No. of thermometer None Cor.

Corrected temperature —

Air 43° Surface 41° Drift

Trawl or dredge T.N. min

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400	mm	mm
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	on surface	—
		2700		
		2800	Chart: C.S. 9100	
		2900	Course: E.N.	
		3000	Lat. $42^{\circ}55'30''$ N.	
		3100	Long. $173^{\circ}33'$ E.	
		3200	Bearing: End Case	
		3300	Am Id. S. $31^{\circ}$ W.	
		3400	true dist. 4.5 miles.	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 2. 4783 Date 9

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 72° Surface 41° Drift

Trawl or dredge Trawl 100 ft. 72° 41° ✓

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. D 4786 Date June 11-01  
 T. V. Machine Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	75	34.5
		2600	75	
		2700	75	
		2800	75	
		2900	75	
		3000	75	
		3100	75	
		3200	75	
		3300	75	
		3400	75	
		3500	75	
		3600	75	
		3700	75	
		3800	75	
		3900	75	
		4000	75	

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 1001 Date Mar 11 1906

Fever Machine Reel.

Turns Cor. + Depth 135

Shot or lead 75

Bottom 42.7

Bottom temperature

No. of thermometer 21.10 Cor.

Corrected temperature

Air 40 Surface 41 Drift

Trawl or dredge 96 Abatwass Bla

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		135		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300	52.50 m.	
		3400	75°. 26° E.	
		3500	East Cap.	
		3600	the Island, lg.	
		3700	11.10 to. C. 1000	
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

607 Y 11

No. H. 4874 Date June 11/10  
 Lucas Machine Reel. Lucas  
 Turns — Cor. + Depth 5-9 fath.  
 Shot ~~or lead~~ 35-lb. Sod's 1000  
 Bottom Coarse b. & S  
 Bottom temperature  
 No. of thermometer None Cor.  
 Corrected temperature  
 Air  $43^{\circ}$  Surface  $42^{\circ}$  Drift  
 Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. H 4875 Date June 11/06  
 Lucas Machine. Reel. Lucas  
 Turns Cor. + Depth 69 fath.  
 Shot or lead 35 lbs. Sops. 0000.  
 Bottom thick.  
 Bottom temperature  
 No. of thermometer None Cor.  
 Corrected temperature  
 Air  $43^{\circ}$  Surface  $42^{\circ}$  Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	777.	1.
		2600	74.5	6.5
		2700	Long	7.5
		2800	Chart	8.5
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-10.3

REMARKS:

No. H 4876 Date June 11/06  
 Lucas Machine. Reel. Lucas  
 Turns ~ Cor.+ Depth 60

Shot or lead 35° degs up

Bottom 1900 fms. full direction

Bottom temperature

No. of thermometer None Cor.

Corrected temperature

Air 43° Surface 40° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 507 Date 12, Nov, 68.

Machine. Reel.

Turns Cor. + Depth 1850

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 44° Surface 42° Drift

Trawl or dredge 2.5 fms. 100 fms.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	1500 fms. min	
		100	1500 fms.	
		200	1500 fms.	
		300	1500 fms.	
		400	1500 fms.	
		500	1500 fms.	
		600	1500 fms.	
		700	1500 fms.	
		800	1500 fms.	
which drags on ship's side.		900	1500 fms. min	
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Cloudy	Cloudy
		2600	Cloudy	Cloudy
		2700	Wind	7.30 A.M.
		2800	Sea	8.15 A.M.
		2900	Cloudy	Cloudy
		3000	Cloudy	Cloudy
		3100	Cloudy	Cloudy
		3200	Cloudy	Cloudy
		3300	Cloudy	Cloudy
		3400	Cloudy	Cloudy
		3500		
		3600	Cloudy	Cloudy
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

No. D. 4786, Date 14 June '06

T. T. Machine. Reel.

Turns Cor. + Depth 54 fms

Shot or lead T.N. Lead

Bottom gr. S.

Bottom temperature

No. of thermometer down Cor.

Corrected temperature

Air 49° Surface 41° Drift

Trawl or dredge C. -

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.02.50	9.04.10	0	9.07.30	9.33.1
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	11	11
		2600	11	11
		2700	11	Variable, 0-1
		2800	11	11
		2900	11	11
		3000	11	11
		3100	11	11
		3200	11	11
		3300	11	11
		3400	11	11
		3500	11	11
		3600	11	11
		3700	11	11
		3800	11	11
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. H 4787 Date June 14 06  
 T IV Machine Reel.

Turns — Cor. + — Depth 54

Shot or lead T N Lied

Bottom — M. S.

Bottom temperature —

No. of thermometer 7 and Cor. —

Corrected temperature —

Air 26° Surface, 4° Drift

Trawl or dredge 1/2 ft Janus

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		16.1
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 111

Date June 10

T.N. Machine Reel.

Turns — Cor. + — Depth 57

Shot or lead T.N. Lead

Bottom 91.5

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 46 Surface 44° Drift

Trawl or dredge 14 ft. Tammes

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		8
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		8.8°
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 114789 Date June 1st 06  
 TN Machine. Reel.  
 Turns Cor. + Depth 56

Shot or lead TN 1

Bottom 81 2

Bottom temperature -

No. of thermometer - Cor.

Corrected temperature

Air 43° Surface 44 Drift

Trawl or dredge 17 ft. 2 sec.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. D. 4790 Date June 14-1906  
 T.N. Machine Reel. T.N.  
 Turns 60 Cor. + Depth 64 fath.  
 Shoot or lead T.N.  
 Bottom P.  
 Bottom temperature  
 No. of thermometer None Cor.  
 Corrected temperature  
 Air 50° Surface Drift  
 Trawl or dredge 9'

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	1-19-00	1-21-00
		100		
		200		
		300		
		400		
		500		in bottom
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200	14.52° 38' 45" 22.	
		3300	Zone 167° 11' 45" E.	
		3400	6. Moraleca,	
		3500	7. 19 Id., S. 84° E.	
		3600	8. 1 - 1. 26 m.	
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. Date / /  
 1. V. Machine. Reel. T.N.  
 Turns 76 Cor.+ Depth 76  
 Shot or lead. T.N.  
 Bottom ~~say~~,  
 Bottom temperature  
 No. of thermometer ~~out~~ Cor.  
 Corrected temperature  
 Air 44 Surface Drift  
 Trawl or dredge 9 ~~out~~ variable,  
~~new line~~

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		X
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	Cloud
		2700	Wind	Varia
		2800	Sea	W. W.
		2900	Bar.	29.42
		3000	Ther. Att.	65°
		3100	Dr. Course	West
		3200	Lat. $54^{\circ} 36' 15''$ N.	
		3300	Long. $166^{\circ} 58' 15''$ E.	
		3400	Bearings	6.7 miles
		3500	Bering Id.	$71.53^{\circ}$ W.
		3600	(Bar)	dist. 8.75 mi.
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. D 4792 Date June 14, 1901

T.N. Machine. Reel. T.N.

Turns 72 Cor. + .0 Depth 72 fath

Shot or lead T.N.

Bottom P

Bottom temperature —

No. of thermometer None Cor.

Corrected temperature

Air 44. Surface 42° Drift

Trawl or dredge 12'

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000	St. Course	V.V.
		3100	52°	36° 16' 7"
		3200	50° 166° 57' 15" E.	
		3300	.....	6. Minuti;
		3400	Bearing	Id., H. 50° 40'
		3500	(true).	dist. 8.7 miles
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 54793 Date 16. June 1906  
 Machine. Reel. \$  
 Turns Cor. + Depth 2700 fms.  
 Shot or lead ✓  
 Bottom ✓  
 Bottom temperature ✓  
 No. of thermometer Cor.  
 Corrected temperature  
 Air 45° Surface 41° Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10 min.	10 min.
		100		
		200		
		300		
		400	10 min.	10 min.
		500		
		600	20 min.	
		700	at estimated	
		800	dist. of 300 fms.	
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	W.S.	95.3
		2600	W.S.	100.10
		2700	W.S.	105.12
		2800	W.S.	108.11
		2900	W.S.	110.11
		3000	W.S.	112.10
		3100	W.S. (ASC) SW by W	
		3200	W.S. (ASC) SW by W Slight	
		3300	Current in N.E. direction	
		3400	at helm	
		3500	wire clear	
		3600	side).	
		3700	Set. 54 as 7...	
		3800	Long. 164° 50' E	
		3900	Latitude 37.07° N	
		4000	Harbor of Philadelphia 1300 fms off 7.58° N (true). dist. 46 mi.	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 47916 Date June 20

T.N. Machine. ✓ Reel.

Turns Cor. + Depth 59

Shot or lead T.N.

Bottom S.F.

Bottom temperature ~~How much~~

No. of thermometer Cor.

Corrected temperature

Air ~~10~~ Surface ~~10~~ Drift

Trawl or dredge 1/2 ft. L.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100	101.57° 27.70' 2	
		3200	101.58° 27.70' 2	
		3300	101.58° 27.70' 2	DE frcet
		3400	101.58° 27.70' 2	
		3500	101.58° 27.70' 2	101.58° 27.70' 2
		3600	101.58° 27.70' 2	101.58° 27.70' 2
		3700	101.58° 27.70' 2	
		3800	101.58° 27.70' 2	
		3900	101.58° 27.70' 2	
		4000	101.58° 27.70' 2	

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 114795 Date June 20 16

T.N. Machine Reel.

Turns Cor. + Depth 69

Shot or lead T.N.

Bottom on Sand

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 46° Surface 46° Drift

Trawl or dredge 1/2 fathoms

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100	46° 55' 7"	
		3200	45° 44' 50"	
		3300	45° 35' 5"	
		3400	45° 25' 5"	
		3500	45° 15' 5"	
		3600	45° 05' 5"	
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1053

REMARKS:

Oct. 11.

No. D 4796 Date Nov 20 1906  
 Machine. Reel.  
 Turns Cor. + — Depth 41

Shot or lead T.N.

Bottom S.F. S.R.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 46° Surface 46° Drift

Trawl or dredge 1/24 Tammes

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400	Boarding: Staritschky	
		3500	dd., S. 71° W (true),	
		3600	depth 2 miles	
		3700		
		3800		
		3900	Chart: N. 0. 54	
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

112° 16.23

REMARKS:

507 See next page

11-1023

No. Date June 20, 19

T.N. Machine. Reel. T.N.

Turns Cor. + Depth ft

Shot or lead a

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. H. 4877 Date June 20  
 Machine. Reel. Luca.

Turns Cor. + Depth

Shot or lead 35<sup>ft</sup> and. Sinker and

Bottom gun 7 M. m. hrs. 6h. 20m

Bottom temperature

No. of thermometer 10 8° 0 19 Cor. + 01°

Corrected temperature

Air 47° Surface 45° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
28	1 - 21 - 20	0		
		100		
16 - 30	29 - 95	200		
	8 - 30	300		
17 - 50	37 - 40	400		
19 - 00	26 - 46	500		
30 - 10	25 - 50	600		
	35 - 00	700		
2 - 46	23 - 66	800		
370	1 - 23 - 50	900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		11.
		2600	52	46° R.
		2700	158	34° E.
		2800		12° S.
		2900	71.52	
		3000	distant 13.55 mi.	
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. D. 4797 Date June 20, 1911  
 Lucas Machine. 1 Reel. 1

Turns Cor.+ Depth

Shot or lead 35<sup>th</sup> and light

Bottom 9 m. N. crooked and

Bottom temperature

No. of thermometer 108019 Cor. -.01

Corrected temperature 36.6

Air 47° Surface 46° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000	31.5	31.5
		3100	31.5	31.5
		3200		
		3300		
		3400		
		3500	2d, 11.43 to true	
		3600	desir. 11.55 mi	
		3700		
		3800	Chart 11.0.54	
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. D. 4797 cont'd Date 20 June, 66.

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 47° Surface 46° Drift

Trawl or dredge Inter. 1, 2, 3.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	4.00.00	4.00.00
		100	4.00.00	4.00.00
		200	4.00.00	4.00.00
		300	4.00.00	4.00.00
		400	4.00.00	4.00.00
		500		
		600	4.00.00	4.00.00
		700	4.00.00	4.00.00
		800	4.00.00	4.00.00
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	on.
		2700	Time	12.45 P.M.
		2800	Time	12.
		2900	Bar.	30.17
		3000	Therm. Atm.	72°
		3100	Course:	E.S.E.
		3200		
		3300	Other data as at beginning of station.	
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 144797 Date Dec 21  
 T.N. Machine Reel.  
 Turns Cor. + Depth 75  
 Shot or lead T H Tubs  
 Bottom 9N S  
 Bottom temperature 37  
 No. of thermometer 108019 Cor. -0.1  
 Corrected temperature 36.9°  
 Air 46° Surface 14° Drift  
 Trawl or dredge 12.5

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
0	0	0	0	0
200	0	100	0	0
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200	Lat. $51^{\circ} 37' N.$	
		3300	Long. $156^{\circ} 21' E.$	
		3400	Bearings, March at	
		3500	Rangan River, $177^{\circ} E$	
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 277 Date

Machine. Reel. Depth 25<sup>x</sup>

Turns Cor. +

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 47-45 Surface 42-40 Drift

Trawl or dredge 17 ft. 2

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
	For	900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100	51° 38' 72.	
		3200	136° 21' 60.	
		3300	136° 21' 60.	
		3400	136° 21' 60.	
		3500	136° 21' 60.	
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507  
No. D. 480. Date 29. June, 1903.  
Machine. Reel.  
Turns Cor. + Depth 1000 fms.  
Shot or lead (from chart)

Bottom  $\sqrt{10}$

Bottom temperature  $54^{\circ}$

No. of thermometer Cor.

Corrected temperature

Air  $34^{\circ}$  Surface Drift

Trawl or dredge Index 6.1. Trawl off 200 fms.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	4.02.40	5.50.00
		100	23.00	24.00
		200	06.00	07.00
		300	09.40	10.00
		400	11.00	11.20
		500		
		600		
		700		
		800		
		900		
$\times$ Sounding wire		1000	above 10 min.	
$\approx$ 2 minutes ship		1100	at 10	
dredge rope.		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Pel. =	44.0
		2600	Weather	ond.
		2700	Wind	15.2
		2800	Sea.	1.1
		2900	Bar.	22.0
		3000	Therm. 60	6.0
		3100	Com. 10	1.1
		3200	Com. 40	1.1
		3300	Com. 10	1.1
		3400	Com. 10	1.1
		3500	Bearings: 1. 10.0	10.0
		3600	Id. S. 77° E. true	
		3700	Dir.	
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. II 4801 Date June 26, 1906

Machine. Reel.

Turns Cor. + Depth 137

Shot or lead 354 No sediment

Bottom 200 fms 5

Bottom temperature 35°

No. of thermometer 10 10.11 Cor. -0.7

Corrected temperature 35.4°

Air 43° Surface 37° Drift

Trawl or dredge 12 ft diameter

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		56.5 W
		3200		56.2 2420
		3300		56.2 2180
		3400		56.2 2170
		3500		56.2 2160
		3600		56.2 2150
		3700		56.2 2140
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-10.23

REMARKS:

No. L.H. 62

Date

Machine. Reel.

Turns Cor. + Depth 2200

Shoot or lead 35' No

Bottom 200

Bottom temperature 26.1

No. of thermometer 161014 Cor. - 0.1

Corrected temperature 36.1

Air 22 Surface 22 Drift

Trawl or dredge 9 ft. Abstain

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		Variable &
		2800		11
		2900	3000	30 0.
		3000	3100	30 4
		3100	3200	30 11
		3200	3300	Lat 46° 44' S.
		3300	3400	Long 151° 44' E.
		3400	3500	12
		3500	3600	Simlishi Id, 21.66' to
		3600	3700	(true), dist. 8.0 mi.
		3700	3800	
		3800	3900	
		3900	4000	Mod N.C. 2182

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. D. 4803 Date June 24/10  
 Lucas Machine. Reel.  
 Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature 31

No. of thermometer 108.049 Cor. -1

Corrected temperature 35

Air 43° Surface 37° Drift

Trawl or dredge 9

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200	46° 47' 51.	
		3300	151° 45' 8.	
		3400	<i>Brachinae</i> ; Gao Rollin, Dimashki Id., 21.59° 60. (true), dist. 9 mi.	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

41 10.5

REMARKS:

No. D. 4804

Date

Machine. Reel.

Turns. Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer None Cor.

Corrected temperature

Air 45° Surface 38° Drift

Trawl or dredge 9' ~~Alt. - 46~~

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200	Temp. 151° 27' 3.	
M. 2 ✓		3300	Bearing: Cape Rollin,	
		3400	Latitude 2d. 21. 58' W.	
		3500	(true). Dist. 9.7 mi.	
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. D. 4805 Date 25 June, 1900.

Machine. Reel. about

Turns Cor. + Depth 1000 fms.

Shot or lead No (from chart.)

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air 45° Surface 40° Drift

Trawl or dredge Trawl. No 1. D. 1000 2 2 2

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10.03.20	10.40.35
		100	06.20	37.35
		200	09.20	34.15
		225	10.11.45	10.31.45
		400		
		500	Towed net, net in	
		600	estimated 6000 ft	
		700	2.71 in. sec 2.7 min.	
		800	1.75 in. min 1	
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L. =	87.6
		2600	Weather	om.
		2700	Wind	South 3.
		2800	Sea	S.
		2900	Bar.	30.06
		3000	Therm. Ad.	63°
		3100	Course	S.E. (R.S.C.)
		3200	Chart	B.A. 2405.
		3300	Lat. 44°	21° 1.
		3400	Long. 149°	04 E.
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. D. 4806. Date 26 June 1911.  
 Machine. Reel.  
 Turns Cor. + Depth Depth not  
 Shot or lead charted.  
 Bottom No  
 Bottom temperature ✓  
 No. of thermometer ✓ Cor.  
 Corrected temperature  
 Air 56' Surface 53.0 Drift  
 Trawl or dredge Inter. N° 1, 2 K.L. 1103 2000

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	5.03.45	
		100	29.35	5.00.30
		200	32.20	57.30
		300	4.34.30	4.54.30
		400		
		500	Towed out 120 min. at an approximate depth of 200 fms.,	
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		77.00 San Diego, dist.
		3600		
		3700		
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 587 Date July 16, 1887  
 Machine Reel. T A  
 Turns Cor. Depth  
 Shot or lead Blank  
 Bottom  
 Bottom temperature —  
 No. of thermometer 22.0 Cor. —  
 Corrected temperature —  
 Air 77 Surface 67 Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		3
		50		4
		100		5
		200		6
		300		7
		400		8
		500		9
		600		10
		700		11
		800		12
		900		13
		1000		14
		1100		15
		1200		16
		1300		17
		1400		18
		1500		19
		1600		20
		1700		21
		1800		22
		1900		23
		2000		24
		2100		25
		2200		26
		2300		27
		2400		28

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		50
		3200		
		3300		41° 36' 13" 2
		3400		40° 32' 5
		3500		40° 35' 6
		3600		35° 45' 6
		3700		35° 10.3
		3800		
		3900		
		4000		

### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 18 Date

Machine Reel T N  
Turns — Cor. + — Depth

Shot or lead Shanks Lead

Bottom 5

Bottom temperature

No. of thermometer — Cor.

Corrected temperature

Air 78 Surface 67 Drift

Trawl or dredge 12 ft. Trawl

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	1.6	
		2600	Heads	5.52
		2700	Wood	Touch 1
		2800	sea	
		2900	bottom	
		3000		
		3100		3.52
		3200	case	5.51
		3300		41° 35' 6" N
		3400	1.6	106° 26' 46" E
		3500		1° 2' 46" E
		3600		S. 67° E. (Dual).
		3700		dist. 10.6 mi.
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. D 4809 Date June 16, 1906  
 Lucas Machine Reel. Lucas  
 Turns Cor. + Depth 207 fms  
 Shot or lead 35 "  
 Bottom "  
 Bottom temperature 77  
 No. of thermometer 22 Cor.  
 Corrected temperature  
 Air 75° Surface 70° Drift  
 Trawl or dredge 12. Tinner

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200	40-55	
		300	2-44-05	3-04-10
207		400	Stopped	
		500	To take turn of	
		600	all in wire	
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		-14° 0' 53
		3100	Course	20V.
		3200	Lat.	41° 18' 21
		3300	Long.	140° 08' 40" E.
		3400	Bearings:	Cape
		3500		Sirakami Lt.,
		3600		71.22° E. (true) 6.8 mi
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-4623

REMARKS:

No. 4/5

Date

Lucas Machine. Reel. Lucas  
Turns Cor. + Depth 90 fath.

Shot or lead 35# lead

Bottom sky.

Bottom temperature 49°

No. of thermometer 108019 Cor. - 0.3°

Corrected temperature 48.8°

Air 76° Surface 70° Drift.

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 15.500 Date 16 Feb. 60.  
 ) Lucas Machine. Reel. Lucas  
 Turns Cor. + Depth 19.5 fms.  
 Shot or lead 35-lb lead.  
 Bottom fiss. S.  
 Bottom temperature 44.8°  
 No. of thermometer 108019 Cor. -0.1°  
 Corrected temperature 44.7°  
 Air 76 Surface 70 Drift  
 Trawl or dredge 12 ft. Tanner

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6.000	6.100	0	6.16.40	6.2.50
17.00	17.00	100	17.00	17.00
6.000	6.000	100. 200	6.20.00	6.2.00
		27. 300	6.24.00	6.12.00
		400	6.24.00	6.12.00
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	10.6	10.1
		2600	10.6	10.9
		2700	Wind	10.1
		2800	Sea	S.
		2900	Buoy	2.1
		3000	10.6	10.1
		3100	10.6	10.2
		3200	10.6	10.1
		3300	10.6	10.1
		3400	10.6	10.1
		3500	10.6	10.1
		3600	10.6	10.1
		3700	10.6	10.1
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

~~507~~ 16  
No. D. 4810. ~~cont'd.~~ Date 16

J Machine. Reel.  
Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 74° Surface 70° Drift

Trawl or dredge Trawl N<sup>o</sup> 1, 2 fds. N<sup>o</sup> 2 & 3.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	5	2
		100	5	2
		200	5	2
		300	5	2
		400	5	2
		500	5	2
		600	5	2
		700	5	2
		800	5	2
		900	5	2
		1000	5	2
		1100	5	2
		1200	5	2
		1300	5	2
		1400	5	2
		1500	5	2
		1600	5	2
		1700	5	2
		1800	5	2
		1900	5	2
		2000	5	2
		2100	5	2
		2200	5	2
		2300	5	2
		2400	5	2

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 14811 Date July 17 1886

Machine.  Reel.

Turns ← Cor. + → Depth

Shot or lead —

Bottom —

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 77 Surface 73 Drift —

Trawl or dredge let <sup>1</sup> to 2-3 E.L.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	8	
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100	46.11.0	
		3200	35.11.0	
		3300	26.11.0	
		3400	31.26.30.0	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

{

No. D. 4812 Date

Sodas Machine. Reel. *V* *area*  
 Turns Cor. + Depth 776.  
 Shot or lead 35  
 Bottom Ind.  
 Bottom temperature  
 No. of thermometer 108 Cor.  
 Corrected temperature 34.  
 Air 79° Surface Drift  
 Trawl or dredge 12'

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-02-00	8-07-0	0		
" "	"	100		
8-15-23	8-06-	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L.	52.4
		2600	Wind	S. Ob.
		2700	Sea	Smooth
		2800	Bar	30.02
		2900	Thes. Att.	76°
		3000	Course	W.E. x E.
		3100	Lat.	38° 33' N.
		3200	Long.	138° 40' E.
		3300	Bearings; N. Points	
		3400	of Sado Id.	
		3500	S. 31° W. (true)	15 mi.
		3600		
		3700	Chart	N.A. 1300
		3800	Weather	b.c. -7
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

507  
De 2019

No. D 4813 Date July 18, 1906  
 Lucas Machine. Reel. Lucas  
 Turns Cor. + Depth 200 fath.  
 Shot or lead 30<sup>±</sup> and Sigsbee rod  
 Bottom bn. Mt. and bk. L.  
 Bottom temperature 34°  
 No. of thermometer 108019 Cor. - .1°  
 Corrected temperature 33.9°  
 Air 81 Surface 73 Drift  
 Trawl or dredge 12' Tanner

SOUNDING WIRE.			TURNS.	DREDGE ROPE.		
DOWN.	A.M.	UP.		DOWN.	A.M.	UP.
9- 10- 05	9- 15- 55		0	9- 19- 50	10- 00- 00	
11- 20	14- 50		100	23- 30	56- 30	
9- 12- 30	9- 18- 35		200	27- 10	52- 50	
			275			
			300	9- 29- 30	9- 49- 30	
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Wind	0.
		2600	Weather	by 1
		2700	Sea	Smooth
		2800	Bat.	30.01
		2900	Ther Att	79°
		3000	Course	SE. x 8.
		3100	Lat.	38° 35' N.
		3200	Long	138° 41' E.
		3300	Chart	H. O. 1300.
		3400	Bearings	71.01.
		3500	Lat. Id.	Lat. 30° 10'
		3600		(true) dist. 17 mi.
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				
11-1623				

REMARKS:

10-

37  
16  
21

11